

IN THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application.

1. (Previously presented) A system for monitoring pressure of tires mounted on a vehicle, comprising:

a sensor unit installed at each of the tires mounted on a vehicle and including at least a pressure sensor that produces an output representing air pressure of the tire and a transmitting antenna that transmits the output of the pressure sensor;

a monitoring unit having a receiving antenna and an alarm section, the monitoring unit receiving the output transmitted by the pressure sensor through the receiving antenna, comparing the output with a predetermined value to determine whether the tire pressure is proper, and informing a result of the determination to an operator by the alarm section;

a battery mounted on the vehicle and connected to the alarm section through an ignition switch to supply operating power to the alarm section; and

an operating switch installed in a compartment of the vehicle to be operable by the operator for supplying the operating power to the alarm section regardless of the operating condition of the vehicle by connecting the battery to the alarm section, while bypassing the ignition switch.

2.(Original) A system according to claim 1, wherein the alarm section includes a warning lamp that is lit when the result of the determination indicates that the tire pressure is not proper.

3. (Original) A system according to claim 1, wherein the alarm section includes a display panel that informs the result of the determination by coloration.

4. (Original) A system according to claim 1, wherein the monitoring unit informs the result of the determination to the operator with indication of increase/decrease direction of tire pressure adjustment.

5. (Original) A system according to claim 4, wherein the alarm section includes a display panel that indicates the increase/decrease direction of tire pressure adjustment by an arrow.

6. (Original) A system according to claim 1, wherein the predetermined value is set based on a recommended cold pressure.

7. (Previously presented) A system for monitoring pressure of tires mounted on a vehicle, comprising:

sensor units installed at each of the tires mounted on a vehicle, respectively, and each sensor unit including at least a pressure sensor that produces an output representing air pressure of the tire and a first transmitting antenna that transmits the output of the pressure sensor;

a monitoring unit having a first receiving antenna, a second transmitting antenna and a first alarm section, the monitoring unit receiving the transmitted output of the pressure sensor through the first receiving antenna, comparing the output with a predetermined value to

determine whether the tire pressure is proper, and informing a result of the determination to an operator by the first alarm section; and

a portable terminal device to be carried by the operator when the operator is outside the vehicle and having a second receiving antenna and a second alarm section;

wherein the monitoring unit transmits the result of the determination to the portable terminal device through the second transmitting antenna and the second receiving antenna to inform the result of the determination to the operator by the second alarm section;

wherein the monitoring unit informs the result of the determination to the operator with indication of increase/decrease direction of tire pressure adjustment; and

wherein the second alarm section includes a display panel that indicates the increase/decrease direction of tire pressure adjustment by an arrow.

8. (Original) A system according to claim 7, wherein the portable terminal device includes a third transmitting antenna and a button; and wherein the monitoring unit transmits the result of the determination to the portable terminal device through the second transmitting antenna and the second receiving antenna to inform the result of the determination to the operator by the second alarm section, when an instruction is made by the operator through the button and is transmitted to the monitoring unit through the third transmitting antenna.

9. (Previously presented) A system according to claim 7, wherein the second alarm section includes a warning lamp for each of the tires that is lit when the result of the determination indicates that corresponding said tire pressure is not proper.

10. (Original) A system according to claim 7, wherein the second alarm section includes a display panel that informs the result of determination by coloration.

11 - 12. (Cancelled)

13. (Previously presented) A system according to claim 7, wherein the portable terminal device is one of a remote keyless entry device, a cellular phone and a portable phone.

14. (Original) A system according to claim 7, wherein a frequency of the antennas is set to a same value.

15. (Original) A system according to claim 7, wherein the predetermined value is set based on a recommended cold pressure.

16. (Previously presented) A system according to claim 7, wherein said predetermined value corresponds to a recommended cold pressure value multiplied by a variable.

17. (Previously presented) A system according to claim 7, wherein the variable is 1.3.

18. (Previously presented) A system according to claim 7, wherein the second alarm section includes a display panel that informs the result of determination by at least one of coloration and hatching patterns.